

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product identifier : RLB/AL
Product name : RAPTOR 2K BLACK BED LINER AEROSOL
Product type : Aerosol.
Other means of identification : Not available.
Date of issue/ Date of revision : 19 June 2025
Version : 1
Date of previous issue : No previous validation

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Not available.
Uses advised against : Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

U-POL Limited
Denington Road
Wellingborough, Northamptonshire, NN8 2QH
+44 (0) 1933 230310
technicalsupport@u-pol.com
e-mail address of person responsible for this SDS : sds-competence@axalta.com

U-POL Netherlands
B.V. Hoorgoorddreef 15
Amsterdam, Netherlands 1101BA
+31 20 240 2216
technicalsupport@u-pol.com

1.4 Emergency telephone number

Supplier

Telephone number : +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Aerosol 1, H222, H229
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 3, H412

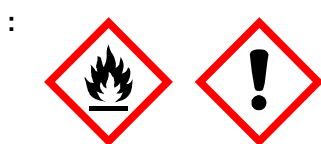
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Contains

: Hexamethylene diisocyanate, oligomers
decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester, mixt. with
1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidiny) decanedioate
Poly(oxy-1,2-ethanediyl), α -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-
4-hydroxyphenyl]-1-oxopropyl]- ω -hydroxy-

Hazard statements

: H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.

Response

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal

: Not applicable.

Supplemental label elements

: EUH204 - Contains isocyanates. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Hexamethylene diisocyanate, oligomers	REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2	≤10	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	REACH #: 01-2119555267-33 EC: 905-562-9 CAS: --	≤4.8	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	[1]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≤2.8	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1]
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl- 4-piperidiny) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl- 4-piperidiny) decanedioate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361 (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Poly(oxy-1,2-ethanediyl), α-[3-[3- (2H-benzotriazol-2-yl)-5- (1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-ω- hydroxy-	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

SECTION 3: Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-----------------------------------|--|
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- | | |
|---------------------|--|
| Eye contact | : Adverse symptoms may include the following:
pain or irritation
watering
redness |
| Inhalation | : Adverse symptoms may include the following:
respiratory tract irritation
coughing |
| Skin contact | : Adverse symptoms may include the following:
irritation
redness |
| Ingestion | : No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|----------------------------|---|
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO₂, powders, water spray or mist.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1 Precautions for safe handling

SECTION 7: Handling and storage

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 50°C (122°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds**Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

dimethyl ether

EH40/2005 WELs (United Kingdom (UK), 1/2020)

STEL 15 minutes: 958 mg/m³.

STEL 15 minutes: 500 ppm.

TWA 8 hours: 400 ppm.

TWA 8 hours: 766 mg/m³.

2-methoxy-1-methylethyl acetate

EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin.

STEL 15 minutes: 548 mg/m³.

TWA 8 hours: 50 ppm.

TWA 8 hours: 274 mg/m³.

STEL 15 minutes: 100 ppm.

Hexamethylene diisocyanate, oligomers

EH40/2005 WELs (United Kingdom (UK), 1/2020) [isocyanates,

SECTION 8: Exposure controls/personal protection

	all, except methyl isocyanate] Inhalation sensitiser. STEL 15 minutes: 0.07 mg/m³ (as -NCO). TWA 8 hours: 0.02 mg/m³ (as -NCO).
acetone	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 3620 mg/m³. STEL 15 minutes: 1500 ppm. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 966 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m³. TWA 8 hours: 150 ppm.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
dimethyl ether	DNEL - General population - Long term - Inhalation 471 mg/m³ <u>Effects</u> : Systemic DNEL - Workers - Long term - Inhalation 1894 mg/m³ <u>Effects</u> : Systemic
2-methoxy-1-methylethyl acetate	DNEL - Workers - Long term - Inhalation 50.132 ppm <u>Effects</u> : Systemic DNEL - Workers - Long term - Dermal 796 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Long term - Inhalation 33 mg/m³ <u>Effects</u> : Local DNEL - General population - Long term - Inhalation 33 mg/m³ <u>Effects</u> : Systemic DNEL - General population - Long term - Oral 36 mg/kg bw/day <u>Effects</u> : Systemic DNEL - Workers - Long term - Inhalation 275 mg/m³ <u>Effects</u> : Systemic DNEL - General population - Long term - Dermal 320 mg/kg bw/day <u>Effects</u> : Systemic

	<div>DNEL - Workers - Short term - Inhalation 550 mg/m³ <u>Effects</u>: Local</div>
	<div>DNEL - Workers - Long term - Dermal 796 mg/kg bw/day <u>Effects</u>: Systemic</div>
Hexamethylene diisocyanate, oligomers	<div>DNEL - Workers - Long term - Inhalation 0.5 mg/m³ <u>Effects</u>: Local</div>
	<div>DNEL - Workers - Short term - Inhalation 1 mg/m³ <u>Effects</u>: Local</div>
acetone	<div>DNEL - Workers - Long term - Inhalation 500 ppm <u>Effects</u>: Systemic</div> <div>DNEL - Workers - Long term - Dermal 186 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - Workers - Long term - Inhalation 1210 mg/m³ <u>Effects</u>: Systemic</div> <div>DNEL - Workers - Short term - Inhalation 2420 mg/m³ <u>Effects</u>: Local</div>
n-butyl acetate	<div>DNEL - Workers - Short term - Dermal 11 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - General population - Long term - Oral 2 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - General population - Short term - Oral 2 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - General population - Long term - Dermal 3.4 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - General population - Short term - Dermal 6 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - Workers - Short term - Dermal 11 mg/kg bw/day <u>Effects</u>: Systemic</div> <div>DNEL - General population - Long term - Inhalation 12 mg/m³ <u>Effects</u>: Systemic</div> <div>DNEL - General population - Long term - Inhalation 35.7 mg/m³ <u>Effects</u>: Local</div>
<div><div>Date of issue/Date of revision: 19 June 2025</div><div>Date of previous issue: No previous validation</div><div>Version: 1</div><div>8/24</div></div>	

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 8: Exposure controls/personal protection

	<p>DNEL - General population - Short term - Inhalation 300 mg/m³ <u>Effects</u>: Local</p> <p>DNEL - General population - Short term - Inhalation 300 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 300 mg/m³ <u>Effects</u>: Local</p> <p>DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects</u>: Local</p> <p>DNEL - Workers - Short term - Inhalation 600 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 300 mg/m³ <u>Effects</u>: Systemic</p>
Reaction mass of ethylbenzene and xylene	<p>DNEL - Workers - Long term - Dermal 212 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 221 mg/m³ <u>Effects</u>: Systemic</p>
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate	<p>DNEL - General population - Long term - Oral 0.18 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Inhalation 0.31 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 0.9 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 1.27 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Dermal 1.8 mg/kg bw/day <u>Effects</u>: Systemic</p>
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	<p>DNEL - General population - Long term - Oral 0.025 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 0.025 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Inhalation</p>

	0.085 mg/m³ Effects: Systemic
	DNEL - Workers - Long term - Dermal 0.25 mg/kg bw/day Effects: Systemic
	DNEL - Workers - Long term - Inhalation 0.35 mg/m³ Effects: Systemic
PNECs	
Product/ingredient name	Result
2-methoxy-1-methylethyl acetate	Soil 0.29 mg/kg
	Sewage Treatment Plant 100 mg/l
	Marine water 0.064 mg/l
	Fresh water 0.635 mg/l
	Fresh water sediment 3.29 mg/kg
	Marine water sediment 0.329 mg/kg
Hexamethylene diisocyanate, oligomers	Marine water 12.7 µg/l
	Fresh water 1270 µg/l
	Sediment 266700 mg/kg
	Soil 53200 mg/kg
	Sewage Treatment Plant 38.28 mg/kg
acetone	Fresh water 10.6 mg/l
	Marine water sediment 1.06 mg/l
	Sediment 30.4 mg/kg
	Marine water sediment 3.04 mg/kg
	Soil 29.5 mg/kg
	Sewage Treatment Plant 100 mg/l

SECTION 8: Exposure controls/personal protection

n-butyl acetate	Soil 0.09 mg/kg
	Fresh water 0.18 mg/l
	Sewage Treatment Plant 35.6 mg/l
	Marine water 0.018 mg/l
	Fresh water sediment 0.981 mg/kg
	Marine water sediment 0.098 mg/kg
Reaction mass of ethylbenzene and xylene	Fresh water 0.327 mg/l
	Marine water 0.327 mg/l
	Sewage Treatment Plant 6.58 mg/l
	Fresh water sediment 12.46 mg/kg dwt
	Marine water sediment 12.46 mg/kg dwt
	Soil 2.31 mg/kg

8.2 Exposure controls

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves : Duration / breakthrough time: <1 hour,
Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)
Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)
The recommendation for the type or types of glove to use when handling this product is based on information from the following source:
Expert judgment
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : By spraying: air-fed respirator.
By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Colour : Black.
Odour : Not available.
Odour threshold : Not available.
Melting point/freezing point : Technically not possible to measure
Initial boiling point and boiling range : Not applicable.
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Not available.

Not available.

Flash point : Closed cup: -4°C (24.8°F)
Auto-ignition temperature : 333°C (631.4°F)
Decomposition temperature : Not applicable.
pH : Not applicable.

SECTION 9: Physical and chemical properties

Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
Solubility in water	: Not available.
Miscible with water	: No.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: 146.7 kPa (1100.7 mm Hg)
Relative density	: Not available.
Density	: 0.947 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Weight volatiles	: 89 % (w/w)
VOC content	: 56.7 % (w/w) (2010/75/EU)

9.2 Other information**9.2.1 Information with regard to physical hazard classes**

Heat of combustion : 12.82 kJ/g

Aerosol product

Type of aerosol : Spray

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

Further information Not available.

room temperature (=20°C)

SECTION 10: Stability and reactivity

10.1 Reactivity	: The product reacts slowly with water, resulting in the production of carbon dioxide.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: In closed containers, pressure build-up could result in distortion, expansion and, in extreme cases, bursting of the container.
10.4 Conditions to avoid	: In a fire, hazardous decomposition products may be produced.
10.5 Incompatible materials	: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	
Product/ingredient name	Result
dimethyl ether	Rat - Oral - LD50 >99999 mg/kg Rat - Dermal - LD50 >99999 mg/kg Rat - Inhalation - LC50 Vapour 309 g/m³ [4 hours] Rat - Inhalation - LC50 Gas. 164000 ppm [4 hours] <u>Toxic effects:</u> Behavioral - Ataxia Behavioral - Coma
2-methoxy-1-methylethyl acetate	Rat - Oral - LD50 8532 mg/kg Rabbit - Dermal - LD50 >5 g/kg
Hexamethylene diisocyanate, oligomers	Rat - Inhalation - LC50 Dusts and mists 18500 mg/m³ [1 hours]
acetone	Rat - Oral - LD50 5800 mg/kg <u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor Rabbit - Dermal - LD50 2001 mg/kg Rat - Inhalation - LC50 Vapour 21 mg/l [4 hours]
n-butyl acetate	Rat - Oral - LD50 10768 mg/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes Rabbit - Dermal - LD50 >17600 mg/kg Rat - Inhalation - LC50 Vapour 21.1 mg/l [4 hours]
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	Rat - Male, Female - Oral - LD50 3523 mg/kg EU B.1 Rabbit - Male - Dermal - LD50 12126 mg/kg EU B.1 Rat - Male - Inhalation - LC50 Vapour 6350 ppm [4 hours] EU B.2
Reaction mass of ethylbenzene and xylene	Rat - Oral - LD50 3523 to 4000 mg/kg

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 11: Toxicological information

decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidiny) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl-4-piperidiny) decanedioate	Rabbit - Dermal - LD50 121236 mg/kg
	Rat - Inhalation - LC50 Vapour 6350 to 6700 ppm [4 hours]
	Rat - Male, Female - Oral - LD50 3230 mg/kg OECD [Acute Oral toxicity - Acute Toxic Class Method]
	Rat - Male, Female - Dermal - LD50 >3170 mg/kg OECD [Acute Dermal Toxicity]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	N/A	23157.9	N/A	89.8	20
dimethyl ether	N/A	N/A	164000	309	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Hexamethylene diisocyanate, oligomers	N/A	N/A	N/A	11	1.5
acetone	5800	2001	N/A	21	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	3523	1100	N/A	11	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidiny) decanedioate	3230	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
acetone	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
	Rabbit - Skin - Mild irritant Amount/concentration applied: 395 mg
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	Rabbit - Skin - Irritant EU B.4 Duration of treatment/exposure: 4 hours Observation period: 7 days

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
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SECTION 11: Toxicological information

acetone	Human - Eyes - Mild irritant <u>Amount/concentration applied:</u> 186300 ppm
	Rabbit - Eyes - Mild irritant <u>Amount/concentration applied:</u> 10 uL
	Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg
	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 20 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation
Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name	Result
Hexamethylene diisocyanate, oligomers	Mouse - skin OECD [Skin Sensitization: Local Lymph Node Assay] <u>Result:</u> Sensitising

Skin
Conclusion/Summary [Product] : Not available.

Respiratory
Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity
Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity
Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity
Not available.

Conclusion/Summary [Product] : Not available.

<u>Specific target organ toxicity (single exposure)</u>	
Product/ingredient name	Result

SECTION 11: Toxicological information

2-methoxy-1-methylethyl acetate	STOT SE 3, H336 (Narcotic effects)
Hexamethylene diisocyanate, oligomers	STOT SE 3, H335 (Respiratory tract irritation)
acetone	STOT SE 3, H336 (Narcotic effects)
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	STOT SE 3, H335 (Respiratory tract irritation)
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	STOT RE 2, H373
Reaction mass of ethylbenzene and xylene	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	ASPIRATION HAZARD - Category 1
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 11: Toxicological information

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
Hexamethylene diisocyanate, oligomers	Acute - LC50 Fish - <i>danio rerio</i> >100 mg/l [96 hours] Acute - EC50 Daphnia - <i>Daphnia magna</i> >100 mg/l [48 hours]
acetone	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> 10 mg/l [48 hours] <u>Effect</u> : Mortality Chronic - NOEC - Marine water Algae - Green algae - <i>Ulva pertusa</i> 4.95 mg/l [96 hours] <u>Effect</u> : Reproduction Acute - EC50 - Marine water Algae - Green algae - <i>Ulva pertusa</i> 20.565 mg/l [96 hours] <u>Effect</u> : Reproduction Chronic - NOEC - Fresh water Crustaceans - Daphnia - <i>Daphniidae</i> 0.016 ml/l [21 days] <u>Effect</u> : Population Acute - LC50 - Fresh water Fish - Guppy - <i>Poecilia reticulata</i> <u>Age</u> : 4 to 12 months; <u>Size</u> : 2 to 10 cm; <u>Weight</u> : 0.5 to 14 g 5600 ppm [96 hours] <u>Effect</u> : Mortality
n-butyl acetate	Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> 185 ppm [96 hours] <u>Effect</u> : Mortality
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	Acute - LC50 Fish 2.6 mg/l [96 hours] Acute - EC50 Daphnia 6.14 mg/l [48 hours]
Reaction mass of ethylbenzene and xylene	Acute - LC50 OECD 203 Fish - Trout - <i>Oncorhynchus mykiss</i> 2.6 mg/l [96 hours]

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 12: Ecological information

	Acute - LC50 OECD 202 Daphnia - Daphnia - <i>Daphnia magna</i> 1 mg/l [24 hours]
	Acute - EC50 OECD 201 Algae - Algae - <i>Selenastrum capricornutum</i> 2.2 mg/l [73 hours]
	Chronic - NOEC OECD 301F Micro-organism - Activated sludge - <i>Activated sludge</i> 16 mg/l [28 days]
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidiny) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl- 4-piperidiny) decanedioate	Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish 0.9 mg/l [96 hours]
	Chronic - NOEC - Fresh water OECD [Daphnia Magna Reproduction Test] Daphnia 1 mg/l [21 days]
	Acute - EC50 - Fresh water OECD [Alga, Growth Inhibition Test] Algae 1.68 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name	Result
Hexamethylene diisocyanate, oligomers	Aerobic 1% [28 days] - Not readily
REACTION MASS OF ETHYLBENZENE, M- XYLENE AND PXYLENE	Aerobic OECD 301F 94% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers	-	-	Not readily
REACTION MASS OF ETHYLBENZENE, M- XYLENE AND PXYLENE	-	-	Readily

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
dimethyl ether	0.07	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
Hexamethylene diisocyanate, oligomers	5.54	367.7	Low
acetone	-0.23	-	Low
n-butyl acetate	2.3	-	Low
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	-	25.9	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Hexamethylene diisocyanate, oligomers	No	N/A	No	No	No	N/A	No
acetone	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
REACTION MASS OF ETHYLBENZENE, M-XYLENE AND PXYLENE	No	N/A	No	Yes	No	N/A	No
Reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl-4-piperidiny) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidiny) decanedioate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.





Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	Waste catalogue
	15 01 10* packaging containing residues of or contaminated by hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2 	2 	2.1 	2.1 
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID : **Tunnel code** (D)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P3a

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 16: Other information

by Rail
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Aerosol 1, H222, H229 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 6/19/2025

Version : 1

Date of previous issue : No previous validation

Notice to reader

RAPTOR 2K BLACK BED LINER AEROSOL

SECTION 16: Other information

This product is intended for industrial use only.

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